

FILE NOTATIONS

Entered in NID File

Entered On S R Sheet

Location Map Pinned

Card Indexed

I W R for State of Fee Land

COMPLETION DATA:

Date Well Completed

OW

WW

TA

GW

OS

PA

Driller's Log

Electric Logs (No.)

E

I

E-I

GR

GRN

Micro

Lat

M-L

Sonic

Others

LOGS FILED

Checked by Chief

Copy NID to Field Office

Approval Letter

Disapproval Letter

Checked by Chief

Copy NID to Field Office

Location Inspected

Band released

State of Fee Land

Location Inspected



POWERS ELEVATION

May 29, 1980

OIL WELL ELEVATIONS AND LOCATIONS
CHERRY CREEK PLAZA, SUITE 1201
800 SOUTH CHERRY STREET
DENVER, COLORADO 80222
PHONE NO. 303/321-2217

U.S. Geological Survey
E. W. Guynn, District Engineer
1745 West 1700 South
2000 Administration Building
Salt Lake City, Utah 84138

RE: Filing NTL-6 and A.P.D. Form 9-331C
William C. Kirkwood
#33-29 Cromwell
741' FSL & 2023' FEL
Sec. 29 T31S R15E
Garfield County, Utah

Dear Mr. Guynn:

Enclosed are three copies of the NTL-6 program and A.P.D. Form 9-331C for the above-referenced well location.

Please notify us when you have arranged a time with the B.L.M. to inspect the site, in order that Larry Becker, our surveyor who did the ground work for this application may be present during the inspection.

The archaeological report is not included with the NTL-6 but will be forwarded to your office, and to the B.L.M. office, from our Archaeological Division.

Sincerely yours,

POWERS ELEVATION

Connie L. Frailey
Connie L. Frailey

CLF:ss
Enclosure

cc: William Vandeventer, William C. Kirkwood, Casper, Wyo.
Larry Becker, Powers Elevation, Grand Junction, Colo.
Dirt Contractor

Powers Elevation
Suite 1201 Cherry Creek Plaza
600 So. Cherry Street
Denver, Colorado 80222

RE: Filing NTL-6 and A.P.D. Form 9-331C
William C. Kirkwood
#33-29 Cromwell
741' FSL & 2023' FEL
Sec. 29 T31S R15E
Garfield County, Utah

Gentlemen:

This is to confirm our understanding with you that Powers Elevation is authorized to act as our agent in the following capacities:

- A. In surveying, staking, and preparing and filing necessary applications, permits and compliance programs, including complete NTL-6 reports, for the above-referenced project.
- B. In accepting on our behalf any changes to location, proposed facilities and/or surface use plan and compliance program requested at on-site inspections, when we are unable to have a Company representative present. Such changes will then be binding upon us or designated Operator.

POWERS' responsibilities do not include construction of location or supervision of drilling, completion or rehabilitation operations.

W C Kirkwood Oil & Gas
Company

by: Steven C. Kirkwood

Title: Geologist

Date: 5/2/80



United States Department of the Interior

IN REPLY REFER

3100(U-50)

BUREAU OF LAND MANAGEMENT

Henry Mountain Resource Area
P.O. Box 99
Hanksville, UT. 84734

June 30, 1980

George Diwachak
USGS Conservation Division
2000 Administration Building
1745 W. 1700 S.
Salt Lake City, UT. 84104

Re: Kirkwood Oil
Proposed Drilling Project
T. 31 S., R. 14 E. and T. 31 S., R. 15 E.

Dear Mr. Diwachak:

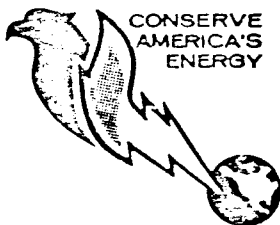
The following information concerns surface protection stipulations to be incorporated into the APD's for the above referenced drilling project.

Site specific stipulations for each of the eight locations include the following:

<u>WELL NAME</u>	<u>LOCATION</u>	<u>LEASE NUMBER</u>
1- Magnum 23-8	NE $\frac{1}{4}$ SW $\frac{1}{4}$ 8 T. 31 S., R. 15 E.	U-21478

- a - The site will be moved roughly 400 ft. to the east to a point where it's coordinates in section 8 are 1900' FEL and 1790' FSL.
- b - The drill site will not be bladed.
- c - A small reserve pit will be constructed to hold cuttings.
- d - Upon completion of the well the pit will be covered, the site will be disked, and the following seed mixture will be hand broadcasted over the site.

<u>SPECIES</u>	<u>LBS/ACRE</u>
Shadscale	3
Indian ricegrass	3
Galleta grass	2



Save Energy and You Serve America!

See PAGE 4 for STIPS, Pg. 5 for clearances & Additional STIPS

- e - All trash and debris will be carried off site and disposed of in a BLM approved location.
- f - Access to the site will be on an existing road. Blading will be kept to a minimum, old rocks and debris will be removed and no new cuts will be authorized.

2 - White Rim 44-4 SE $\frac{1}{4}$ SE $\frac{1}{4}$ SE $\frac{1}{4}$ 4, T. 31 S., R. 15 E. U-21083

- a - The site will be moved from the SESESE, to the NESESE of section 4.
- b - The drill site will not be bladed.
- c - A small reserve pit will be cut to hold cuttings.
- d - Upon completion of the well the pit will be covered, the site will be disked, and the following seed mixture will be hand broadcasted over the site.

<u>SPECIES</u>	<u>LB/ACRE</u>
Shadscale	3
Indian ricegrass	3
Galleta grass	2

- e - All trash and debris will be carried off site and disposed of in a BLM approved location.
- f - Access to the site will be on an existing road. Blading will be kept to a minimum.

3 - Garfield 44-15 SE $\frac{1}{4}$ SE $\frac{1}{4}$ 15, T. 31 S., R. 15 E. U-21037

- a - The drill site will not be bladed.
- b - A small reserve pit will be constructed to hold cuttings.
- c - Upon completion of the well the pit will be covered, the site will be disked, and the following seed mixture will be hand broadcasted over the site.

<u>SPECIES</u>	<u>LB/ACRE</u>
Shadscale	3
Indian ricegrass	3
Galleta grass	2

- d - All trash and debris will be carried off-site and disposed of in a BLM approved site.
- e - Access to the site will be confined to the existing road. Blading will be kept to a minimum by simply removing any rocks and debris

blocking the road and by filling in any washed out areas.

4 - Winfield 21-15 NE $\frac{1}{4}$ NW $\frac{1}{4}$ 15, T. 31 S., R. 15 E. U-21037

- a - The drill site will not be bladed.
- b - A small reserve pit will be constructed to hold cuttings.
- c - Upon completion of the well the pit will be covered, the site will be disked, and the following seed mixture will be hand broadcasted over the site.

SPECIES

LB/ACRE

Shadscale	3
Indian ricegrass	3
Galleta grass	2

- d - All trash and debris will be carried off-site and disposed of in a BLM approved site.
- e - Access to the site will be confined to the existing road. Blading will be kept to a minimum by removing only those rocks and debris blocking the road and by filling in any washed out areas.

5 - Remington 14-15 SW $\frac{1}{4}$ SW $\frac{1}{4}$ 15, T. 31 S., R. 15 E. U-21037

- a - The drill site will not be bladed.
- b - The two rock cairns on the access road will be left intact.
- c - A small reserve pit will be constructed to hold cuttings.
- d - Upon completion of the well the pit will be covered, the site will be disked, and the following seed mixture will be hand broadcasted over the site.

SPECIES

LB/ACRE

Shadscale	3
Indian ricegrass	3
Galleta grass	2

- e - All trash and debris will be carried off-site and disposed of in a BLM approved site.
- f - Access to the site will be confined to the existing road. Blading will be kept to a minimum by removing only those rocks and debris blocking the road and by filling in any washed out areas.

6 - Monroe 22-20 SE $\frac{1}{4}$ NW $\frac{1}{4}$ 20, T. 31 S., R. 15 E. U-21477

- a - The drill site will be moved 75 feet to the west in order to drill on a level spot on the old existing road.
- b - The drill site will not be bladed.
- c - A small reserve pit will be constructed to hold cuttings.
- d - Upon completion of the well the pit will be covered, the site will be disked, and the following seed mixture will be hand broadcasted over the site.

SPECIES

LB/ACRES

Shadscale	3
Indian ricegrass	3
Galleta grass	2

- e - All trash and debris will be carried off-site and disposed of in a BLM approved site.
- f - Access to the site will be confined to the existing road. Blading will be kept to a minimum by removing only those rocks and debris blocking the road and by filling in any washed out areas.

7 - Eastex 41-20 NE $\frac{1}{4}$ NE $\frac{1}{4}$ 20, T. 31 S., R. 15 E. U-21477

- a - The drill site will not be bladed and will be located directly adjacent to main access road in North Hatch Canyon.
- b - A small reserve pit will be constructed to hold cuttings.
- c - Upon completion of the well the pit will be covered, the site will be disked, and the following seed mixture will be hand broadcasted over the site.

SPECIES

LB/ACRE

Shadscale	3
Indian ricegrass	3
Galleta grass	2

- d - All trash and debris will be carried off-site and disposed of in a BLM approved site.

8 - Cromwell 33-29 SW $\frac{1}{4}$ SE $\frac{1}{4}$ 29, T. 31 S., R. 15 E. U-21476

- a - The drill site will not be bladed.
- b - A small reserve pit will be constructed to hold cuttings.

- c - Access to the site will involve blading roughly 3/4 mile of new road from the existing road in South Hatch Canyon. This road will be constructed with a minimum amount of blading and will be reclaimed from the site all the way back to the South Hatch Canyon road. All cuts will be recontoured, the road disked and revegetated by hand broadcasting the following species.

<u>SPECIES</u>	<u>LB/ACRE</u>
Shadscale	3
Indian ricegrass	3
Galleta grass	2

- d - Upon completion of the well the pit will be covered, the site will be disked and the above listed species will be hand broadcasted over the site.
- e - All trash and debris will be carried off and disposed of in a BLM approved site.

In addition to the above mentioned site specific stipulations the entire project should be covered by two more protective measures.

- 1) No unnecessary off-road driving will be authorized. Four-wheel drives will be restricted to existing roads.
- 2) No uranium claim markers, or cairns, will be destroyed or damaged.

The majority of the project takes place in BLM Wilderness Inventory Unit # 241, Fiddler Butte. The areas wilderness characteristics are not exceptional and as a result the BLM's inventory has recommended that the unit be dropped from any further wilderness study. However, under BLM's Interim Management Policy of Lands Under Wilderness Review (IMP), we are mandated to protect the area from any further undue or unnecessary degradation until October 1, 1980, at which time the area will officially fall out of further wilderness consideration. This time frame allows the public to comment on our decision. If there are any comments or protests to put this area back into wilderness study status, then the Bureau will have to assess the comments and decide if they are worthy of consideration. Therefore, the area could go back into wilderness study status in October and as a result we must protect the area.

The BLM's IMP Guidelines mandate that these wilderness guidelines be addressed in an Environmental Assessment (EA).

Therefore, since the GS is preparing the EA for this project, we would request that this information be included in the document. You can also include the statement that the Bureau has determined that impacts from this project will not impair the wilderness characteristics of the area and that if the mitigating measures are followed, the impacts can be returned to a substantially unnoticeable condition.

The BLM has also conducted surveys for Threatened and Endangered Plants and Animals in the project area and as a result of these surveys T & E clearances

are granted as no T & E plants or animals were found. The BLM can also grant Archaeological clearance at this time based on an archaeological survey conducted of the area by Powers Elevation Company.

If you have any questions concerning the foregoing discussion, or if you need any additional information, please feel free to contact our office.

Sincerely,



Area Manager

CC; Chuck Horsburgh
Richfield BLM

W.J. Averett, Consulting Petroleum Engineer
1682 Woodland Dr.
Provo, Utah 84601

FROM : DISTRICT GEOLOGIST, ME, SALT LAKE CITY, UTAH
TO : DISTRICT ENGINEER, O&G, SALT LAKE CITY, UTAH
SUBJECT: APD MINERAL EVALUATION REPORT

LEASE NO. U-21476OPERATOR: William C. KirkwoodWELL NO. 33-29

LOCATION: NW 1/4 SW 1/4 SE 1/4 sec. 29, T. 31S, R. 15E, SLM
Garfield County, Utah

1. Stratigraphy: Operator tops appear reasonable

Moenkopi	surface
White Rim	320'
Organ Rock	600'
<u>TO</u>	620'

2. Fresh Water:

None probable

3. Leasable Minerals:

4. Additional Logs Needed: Adequate

5. Potential Geologic Hazards: None anticipated

6. References and Remarks:

Heavy oil - might require Tertiary extraction methods

Signature: Gregory W. WoodDate: 6-24-80

Oil and Gas Drilling

EA #486-80

United States Department of the Interior
Geological Survey
2000 Administration Bldg.
1745 West 1700 South
Salt Lake City, Utah 84104

Usual Environmental Analysis

Date: July 1, 1980

Operator: Willaim C. Kirkwood Project or Well Name and No.. 33-29
Location: 741' FSL & 2023 FEL Sec.: 29 T.: 31S R.. 15E
County: Garfield State: Utah Field/Unit: Wildcat
Lease No.: U-21476 Permit No.. N/A

Joint Field Inspection Date: June 26, 1980

Prepared By: George Diwachak

Field Inspection Participants, Titles and Organizations:

George Diwachak	Environmental Scientist	U.S.G.S.
Larry Gearhart	Surface Protection	BLM
Lynn Jackson	Geologist	BLM
Wallace J. Averett	Engineer	William C. Kirkwood
Larry Becker	Surveyor	Powers Elevation

Related Environmental Analyses and References:

- (1) Final Environmental Statement - Proposed General Management Plan, Wilderness Recommendation, Road Study Alternatives: Glenn Canyon National Recreation Area, National Park Service, Page, Arizona, July 1979.

1j 7/2/80

Handwritten notes:
Admin Comp
No. 33-29
T. 31S R. 15E
S. 10' x 10' 7/2/80
Noted - G. Diwachak

DISCRIPTION OF PROPOSED ACTION

Proposed Action:

1. Location State: Utah.
 County: Garfield

 741' FSL, 2023' FEL, SW 1/4 SE 1/4
 Section 29, T 31S, R 15E, S L M.
2. Surface Ownership Location: Public.
 Access Road: Public.

Status of
Reclamation Agreements: Not Applicable.

3. Dates APD Filed: June 6, 1980 .
 APD Technically Complete: June 23, 1980 .
 APD Administratively Complete: June 6, 1980 .

4. Project Time Frame

Starting Date: Upon approval .

Duration of Drilling activities: 2-3 days.

A period of 30 to 60 days is normally necessary to complete a well for production if hydrocarbons are discovered. If a dry hole is drilled, recontouring and reseeding would normally occur within one year, revegetation or restoration may take several years. If the well is a producer, an indefinite period of time would occur between completion and rehabilitation.

5. Related actions of other federal or state agencies and Indian tribes:

The location falls within a BLM Wilderness Study Area with no exceptional wilderness characteristics and as a result of a BLM inventory, the unit has been recommended to be dropped from further study (See attached BLM Memo).

6. Nearby pending actions which may affect or be affected by the proposed action:

None known.

7. Status of Variance Requests:

None known.

The following elements of the proposed action would/could result in environmental impacts:

1. The drill site would not be bladed. A truck mounted, air drilling rig would be employed utilizing an area 50 feet wide by 100 feet long. A small 10' X 10' reserve pit would be constructed to hold cuttings. A pit toilet would also be constructed for human sewage.

An access road 12-16 feet in width would be bladed for 0.7 miles to the location to the existing road in South Hatch Canyon. Surface disturbances would be kept to a minimum.

This well is part of an 8 well program within T 31S, R 15E.

2. Drilling techniques would employ a small truck mounted, air rig.
3. Waste disposal - All trash would be confined to containers and disposed of in a BLM approved location.
4. Traffic would be minimal and should be confined to existing roadways.
5. Water requirements - None needed.
6. Completion - None Anticipated.
7. Production - No production facilities are anticipated at this time.
8. Transportation of hydrocarbons - Not requested in APD.

Details of the proposed action are described in the Application for Permit to Drill.

Environmental Considerations of the Proposed Action:

Regional Setting/Topography: Regional topography consists of Canyonlands terrain, steep, rock walled canyons and mesas with relatively flat valleys, within the Dirty Devil River Basin. The location is situated in the bottom of South Hatch Canyon at the base of the talus flanked canyon wall. Slopes are minimal at the wellsite and access road.

PARAMETER

A. Geology

1. Other Local Mineral Resources to be Protected: None.

Information Source: APD, Mineral Evaluation Report, Mining Report.

2. Hazards:

a. Land Stability: No instability expected, wellsite terrain is basically flat. A truck mounted rig with hydraulically controlled leveling devices would be used.

Information Source: APD, Field Observation, Operator.

b. Subsidence: None expected.

Information Source: APD, Field Observation.

c. Seismicity: The wellsite is in an area of minor seismic risk.

Information Source: Rocky Mountain Association of Geologists.

d. High Pressure Zones/Blowout Prevention: No high pressure anticipated or found during drilling of nearby State Wells in Section 32, T 31S, R 15E and Section 36, T 31S, R 14E. No BOP equipment planned for this shallow test.

Information Source: APD, Operator.

B. Soils:

1. Soil Character: Soils in the area are a sandy clay with occasional sandy areas. Soil disturbances would be minimal and confined to pit and road construction.

Information Source: Field Observation, APD, BLM.

2. Erosion/Sedimentation: Minimal as surface disturbances would be limited to road blading.

Information Source: BLM, APD, Field Observation.

C. Air Quality: The wellsite is within a Class II Attainment Area. Air quality would decrease temporarily from rig and vehicle emissions and fugitive dust.

Information Source: BLM, Field Observation.

D. Noise Levels: Noise levels would increase temporarily from rig and vehicle operations affecting wildlife in a distributional sense.

Information Source: Field Observation.

E. Water Resources

1. Hydrologic Character

a. Surface Waters: No perennial drainages in area. Wellsite is in Dirty Devil River Basin which flows to Lake Powell. Some siltation to Lake Powell could occur but would be minimal. No water is needed for drilling.

Information Source: Field Observation, APD.

b. Ground Waters: No fresh water expected to be encountered during drilling. Commingling of any aquifers in area is possible.

Information Source: Mineral Evaluation Report.

2. Water Quality

- a. Surface Waters: Spill potential to live surface waters is minimal.

Information Source: Field Observation.

- b. Ground Waters: Insignificant impacts expected since air drilling techniques would be employed.

Information Source: Field Observation, APD.

F. Flora and Fauna

1. Endangered and Threatened Species Determination

Based on the formal comments received from the BLM on July 1, 1980, we determine that there would be no effect on endangered and threatened species and their critical habitat.

2. Flora: Vegetation in area is sparse due to limited water. Plants are of a blackbrush community.

Information Source: Field Observation, BLM.

3. Fauna: Wildlife in area is sparse due to limited food source and consists predominately of rodents, coyotes, reptiles, chukars, songbirds and few raptors.

Information Source: APD, Field Observation, BLM.

G. Land Uses

1. General: The general area is used for grazing, minimal mineral exploration/extraction and recreation.

Information Source: BLM, Field Observation.

2. Affected Floodplains and/or Wetlands: N/A.

Information Source: Field Observation.

3. Roadless/Wilderness Area: The wellsite falls within BLM Wilderness Inventory Unit #241, Fiddler Butte. The area's wilderness characteristics are not exceptional and as a result, a BLM inventory has recommended that the unit be dropped from any further wilderness study, however, under BLM's Interim Management Policy of Lands under Wilderness Review (IMP), it is mandated that the area be protected from any further undue or unnecessary degradation until October 1, 1980, at which time the area will officially fall out of further wilderness consideration. This allows for public comment on BLM's decision. Any comments or protests to return this area back into wilderness study status would require the BLM to assess the comments and decide if they are worthy of consideration. Therefore, the area could return into Wilderness Study Status in October.

The BLM has determined that impacts from this project would not impair the wilderness characteristics of the area. This fact is supported by the operating plan presented in the APD. Furthermore, if recommended mitigative measures are followed, any impacts could be returned to a substantially unnoticed condition.

- H. Aesthetics: The operation does not blend in with the natural surroundings. However, considering the short duration of drilling the proposed 8 well program and the minimal surface disturbances proposed, this action would pose little impact to area aesthetics.

Information Source: Field Observation, APD.

- I. Socioeconomics: The remoteness of the area limits socioeconomic impacts in Garfield County, Utah. Most services and personnel would emanate from Moab, Utah, utilizing company camp facilities on State Lands. Some economic increases could be expected in Hanksville, Utah, the nearest town.

Information Source: Field Observation.

- J. Cultural Resources Determination: Based on the formal comments received from BLM on July 1, 1980, we determine that there would be no effect on cultural resources subject to this action.

Information Source: BLM.

- K. Other: Glen Canyon National Recreation Area is located about 5 miles south-east of the project area. No impacts to the recreation area are expected. Lake Powell is about 20 miles southeast of the site.

Information Source: Field Observation.

- L. Adequacy of Restoration Plans: The restoration plan meets the minimum requirements of NTL-6. Restoration recommendations have been supplied by the BLM.

Information Source: BLM, Field Observation, APD.

Alternatives to the Proposed Action:

1. Disapproving the proposed action or no action - If the proposed action is denied, no action would occur, the existing environment would remain in its present state, the lessee/operator would not realize any return on investments and the public would be denied a potential energy source.
2. Approving the project with the recommended stipulations - Under federal oil and gas leasing provisions, the Geological Survey has a responsibility to approve mineral development if the environmental consequences are not too severe or irreversible. Permanent damage to the surface and subsurface would be prevented as much as possible under USGS and Surface Management Agency supervision. Environmental impacts would be significantly mitigated.

Adverse Environmental Effects:

1. If approved as proposed:

- a. About 1 acre of vegetation would be removed, increasing and accelerating erosion potential.
- b. Minor air pollution would be induced on a temporary basis due to exhaust emissions from rig engines and support traffic.
- c. The potential for fires, leaks, spills of gas and oil or water exists but is minimal.
- d. During construction and drilling phases of the operation, noise and dust levels would increase.
- e. Distractions from aesthetics during the lifetime of the project would exist.
- f. Erosion from the site would eventually be carried as sediment in the Lake Powell.
- g. If hydrocarbons would be discovered and produced, further development of the area could be expected to occur, which would result in the extraction of irreplaceable resource, and further negative environmental impacts. These impacts include the cumulative loss of wildlife habitat due to the areas necessary for roads, pipelines, drillsites, and transmission lines. These actions may disrupt wildlife social behavior and force habitat relocation over an extended period of time. In addition, the cumulative effects of non-point erosion become substantial in a developing field, primarily those located near perennial streams where siltation and sedimentation are critical to aquatic life cycles.

2. Conditional Approval:

All adverse impacts described in section one above could occur, except:

- a. Constructing a reserve pit would provide for adequate disposal of cuttings and any encountered ground water.
- b. Keeping dirt work to a minimum would preserve the remote, pristine characteristics of the area.

Recommended Approval Conditions:

Drilling should be allowed, provided the following mitigative measures are incorporated into the proposed APD and adhered to by the operator:

1. See attached BLM Stipulations.
2. The drillsite will not be bladed, however, a small 10' by 10' reserve pit and a pit toilet would be constructed.

3. All trash and debris will be removed from the site.

4. The 0.7 mile of new access road will be constructed with a minimum amount of ^{grading} to simply allow access to the location.

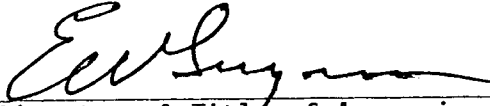
Controversial Issues and Conservation Division Response:

None.

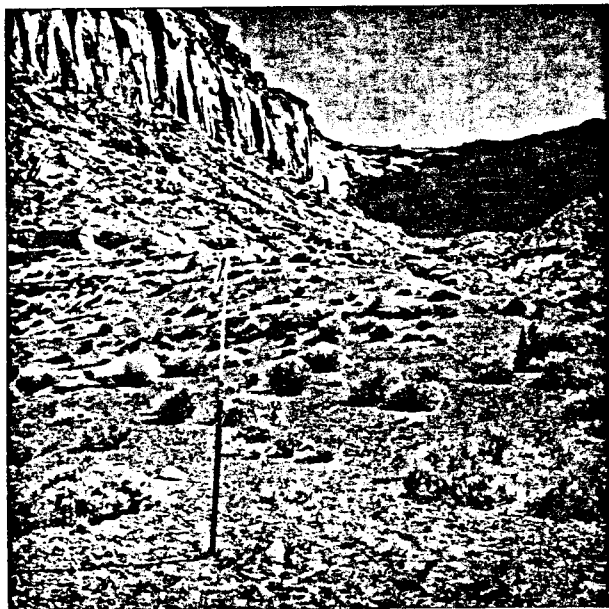
We have considered the proposed action in the preceding pages of this EA and find, based on the analysis of environmental considerations provided therein, no evidence to indicate that it will significantly (40 CFR 1508.27) impact the quality of the human environment.

Determination:

I determine that the proposed action (as modified by the recommended approval conditions) does not constitute a major Federal action significantly affecting the quality of the human environment in the sense of NEPA, Section 102 (2)(C).

 DISTRICT ENGINEER
Signature & Title of Approving Official

JUL 03 1980
Date



KIRKWOOD 33-29

N



KIRKWOOD 33-29

S

SELECTED REFERENCES

- Anderson, B.A. 1979, Desert Plants of Utah: Cooperative Extension Service, Utah State University, Logan, Utah. 146 p.
- Bureau of Land Management, 1979, Final Initial Wilderness Inventory, Utah: U.S. Department of the Interior, BLM, Salt Lake City, Utah, 50 p.
- Bureau of Land Management, 1979, Interim Management Policy and Guidelines for Lands Under Wilderness Review: U.S. Department of the Interior, BLM, Washington, D.C. 32 p.
- Keller, E.A., 1976, Environmental Geology: C.E. Merril Publishing Company, Columbus, Ohio. 488 p.
- National Park Service, 1979, Draft Mineral Management Plan: USDI/NPS, Page, A2. 56 p.
- National Park Service, 1979, Proposed General Management Plan, Wilderness Recommendations, Road Study Alternatives, Final Environmental Statement, Glen Canyon National Recreation Area / Arizona-Utah: USDI/NPS, Page A2. 347p.
- Rocky Mountain Association of Geologists, 1972, Geologic Atlas of the Rocky Mountain Region: Denver, Colorado. 331 p.
- U.S. Geological Survey, 1979, Development of Coal Resources in Southern Utah, Final Environmental Statement: Department of the Interior, U.S. Geological Survey, Washing, D.C. 611 p.
- Wilson, LeMoyné, et.al, 1975, Soils of Utah: Agricultural experiment Station, Bulletin 492, Utah State University, Logan, Utah. 94 p.
- Zarn, Mark, 1977, Ecological Characteristics of Pinyon-Juniper Woodlands on the Colorado Plateau: U.S. Dept. of Interior, Bureau of Land Management, Technical Note 310, Denver, Colorado 183 p.

William Kirkwood

Memorandum

To: District Oil and Gas Engineer, Mr. Edward Guynn

From: Mining, Supervisor, Mr. Jackson W. Moffitt

Subject: Application for Permit to Drill (form 9-331c) Federal oil and gas lease No. 11-21476 Well No. 33-29

1. The location appears potentially valuable for:

- ☐ strip mining*
- ☐ underground mining**
- ☒ has no known potential.

2. The proposed area is

- ☐ under a Federal lease for _____ under the jurisdiction of this office.
- ☒ not under a Federal lease under the jurisdiction of this office.
- ☐ Please request the operator to furnish resistivity, density, Gamma-Ray, or other appropriate electric logs covering all formations containing potentially valuable minerals subject to the Mineral Leasing Act of 1920.

*If location has strip mining potential:

Surface casing should be set to at least 50 feet below the lowest strip minable zone at _____ and cemented to surface. Upon abandonment, a 300-foot cement plug should be set immediately below the base of the minable zone.

**If location has underground mining potential:

The minable zones should be isolated with cement from a point 100 feet below the formation to 100 feet above the formation. Water-bearing horizons should be cemented in like manner. Except for salines or water-bearing horizons with potential for mixing aquifers, a depth of 4,000 feet has been deemed the lowest limit for cementing.

Signed

Allen J. Vance

DIVISION OF OIL, GAS AND MINING

SPODDING INFORMATION

NAME OF COMPANY: William C. Kirkwood

WELL NAME: Hatch Canyon Unit #33-29 (Cromwell)

SECTION 29 SW SE TOWNSHIP 31S RANGE 15E COUNTY Garfield

DRILLING CONTRACTOR H.E. Beeman

RIG # 2

SPODDED: DATE 7/5/80

TIME 2:30 p.m.

How rotary

DRILLING WILL COMMENCE presently

REPORTED BY Wallace Averett

TELEPHONE # 304-9962 (Provo)

DATE July 7, 1980

SIGNED

W.C. Kirkwood

cc: USGS

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK DRILL <input checked="" type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG BACK <input type="checkbox"/>			5. LEASE DESIGNATION AND SERIAL NO. U-21476
b. TYPE OF WELL OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/> SINGLE ZONE <input checked="" type="checkbox"/> MULTIPLE ZONE <input type="checkbox"/>			6. IF INDIAN, ALLOTTEE OR TRIBE NAME N/A
2. NAME OF OPERATOR William C. Kirkwood			7. UNIT AGREEMENT NAME <i>Watah Canyon</i>
3. ADDRESS OF OPERATOR P. O. Drawer 3439 Casper, Wyoming 82602			8. FARM OR LEASE NAME Cromwell
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.) At surface 741' FSL & 2023' FEL (SWSE) At proposed prod. zone Same			9. WELL NO. #33-29
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE* Approximately 49 miles East-Southeast of Hanksville, Utah			10. FIELD AND POOL, OR WILDCAT Wildcat
15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drilg. unit line, if any) 741'			11. SEC., T., R., M., OR BLE. AND SURVEY OR AREA Sec. 29 T31S R15E
16. NO. OF ACRES IN LEASE 1872.44			12. COUNTY OR PARISH 13. STATE Garfield Utah
17. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. 2640' +			17. NO. OF ACRES ASSIGNED TO THIS WELL 40
18. PROPOSED DEPTH 620'			20. ROTARY OR CABLE TOOLS Rotary
21. ELEVATIONS (Show whether DF, RT, GR, etc.) 5060' GR			22. APPROX. DATE WORK WILL START* June 15, 1980

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
8 1/2"	6/58" New	24# K-55 8 Rd.	20'	10 sxs Cement, Class "G" 2% Ca
5 5/8"	4 1/2" New	9.5# K-55 8 Rd.	620'	50 sxs Cement, Class "G" 2% CaC

1. Drill 8 1/2" hole and set 6 5/8" surface casing to 20' with good returns.
2. Log B.O.P. checks in daily drill reports and drill 5 5/8" hole to 620'.
3. Run tests if warranted and run 4 1/2" casing if productive.
4. Run logs, as needed, and perforate and stimulate as needed.

EXHIBITS ATTACHED:

- "A" Location and Elevation Plat
- "B" The Ten-Point Compliance Program
- "D" The Multi-Point Requirements for A.P.D.
- "E" Access Road Map to Location
- "F" Radius Map of Field

RECEIVED
JUL 08 1980APPROVED BY THE DIVISION OF OIL, GAS, AND MINING
DIVISION OF OIL, GAS & MINING

DATE: 7-7-80

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24. SIGNED *Wm C. Kirkwood* TITLE *Pete Engle* DATE *2-14-80*

(This space for Federal or State office use)

PERMIT NO. 43-017-30090

APPROVAL DATE 7/9/80

APPROVED BY
CONDITIONS OF APPROVAL, IF ANY:

TITLE

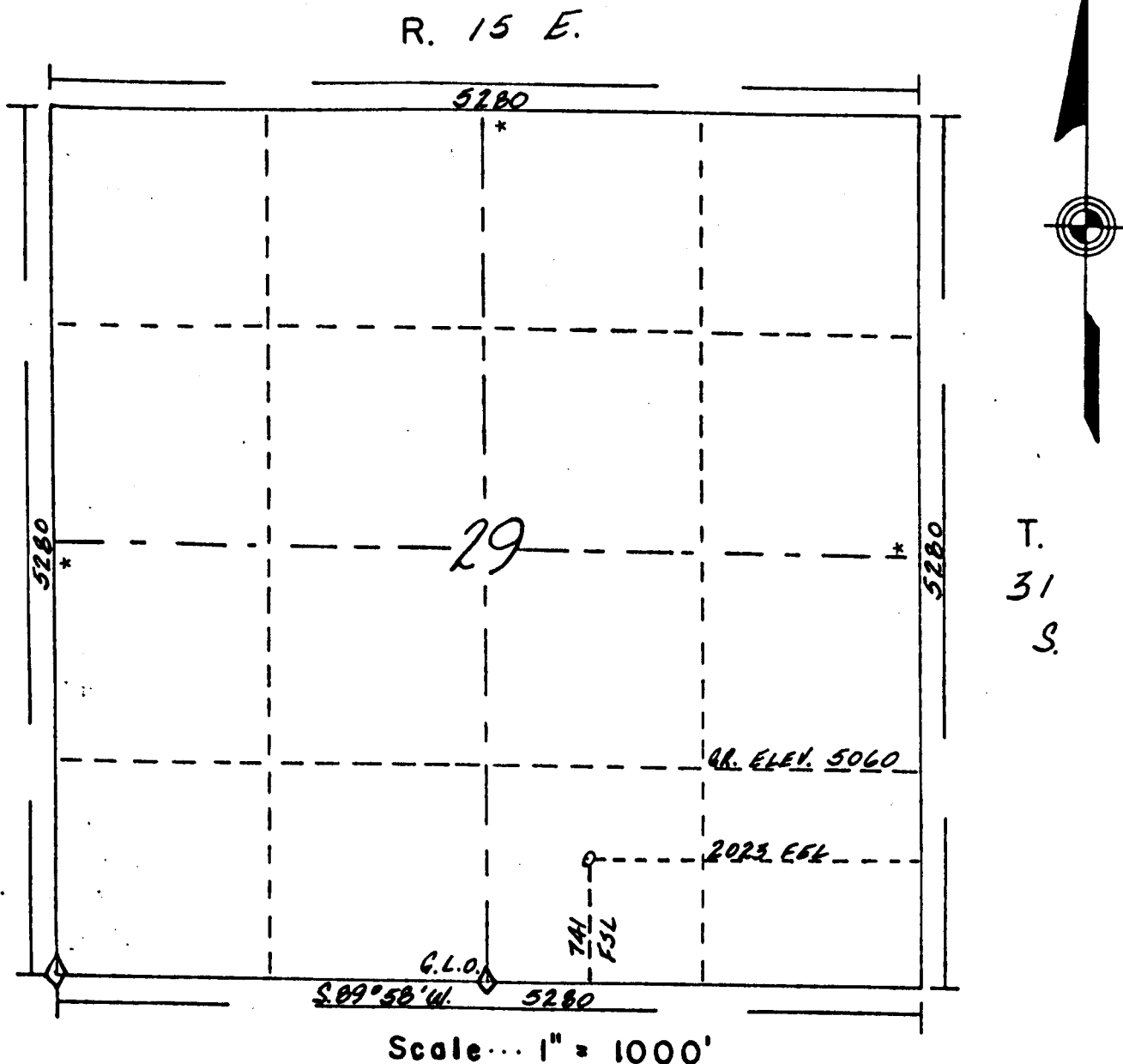
DATE



FORM F-106

EXHIBIT "A"
Location & Elevation P

* Protraction Diagram No. 3
BLM Area 2
March 7, 1961



Powers Elevation Company, Inc. of Denver, Colorado
has in accordance with a request from *Tim Schowalter*
for *WILLIAM C. KIRKWOOD*
determined the location of *#33-29 CROMWELL*
to be *741 FSL & 2023 FEL* of Section 29 Township 31 S.
Range 15 E. of the Salt Lake Base and Meridian
Garfield County, Utah.

I hereby certify that this plat is an
accurate representation of a correct
survey showing the location of

#33-29 CROMWELL

Date: 5-8-80

John R. Becken
Licensed Land Surveyor No. 4189
State of Utah

EXHIBIT "B"

TEN-POINT COMPLIANCE PROGRAM
OF NTL-6 APPROVAL OF OPERATIONS

Attached to Form 9-331C
William C. Kirkwood
Cromwell #33-29
SWSE Sec. 29 T31S R15E
741' FSL & 2023' FEL
Garfield County, Utah

1. The Geologic Surface Formation

The Surface formation is Moenkopi.

2. Estimated Tops of Important Geologic Markers

White Rim	320'
Organ Rock	600'
Total Depth	620'

3. Estimated Depths of Anticipated Water, Oil, Gas or Minerals

No water zones are anticipated
White Rim 320' Oil

4. The Proposed Casing Program

<u>HOLE SIZE</u>	<u>INTERVAL</u>	<u>SECTION LENGTH</u>	<u>SIZE (OD)</u>	<u>WEIGHT, GRADE & JOINT</u>	<u>NEW OR USED</u>
8½"	0-20'	20'	6 5/8"	24#, K-55 8 Rd.	New
5 5/8"	0-620'	620'	4½"	9/5#, K-55, 8 Rd.	New

Cement Program

- A. Surface casing - 10 sxs. cement, Class "G", 2% CaCl
 B. Production casing - 50 sxs. cement, Class "G", 2% CaCl

5. The Operator's Minimum Specifications for Pressure Control

Not Applicable

6. The type and Characteristics of the Proposed Circulating Muds

Not Applicable - Air Drilled.

7. The Auxiliary Equipment to be Used

Not Applicable

8. Testing, Logging and Coring Programs to be Followed

- (a) No DST's are anticipated.
- (b) An IES Log and Density log will be run from surface to 600'.
- (c) Coring is anticipated from the top of the White Rim to top of the Organ Rock, a total of 280'.
- (d) Stimulation procedures will be determined after evaluation of logs. If treatment is indicated, appropriate Sundry Notice will be submitted.

9. Any Anticipated Abnormal Pressures or Temperatures

No Abnormal pressures or temperatures have been noted or reported in wells drilled in the area nor at the depths anticipated in this well.

No hydrogen sulfide or other hazardous fluids or gases have been found, reported or known to exist at these depths in the area.

10. Anticipated Starting Date and Duration of the Operations

The anticipated starting date is set for June 15, 1980, or soon as possible after examination and approval of drilling requirements. Operations should be completed within 4 days after spudding the well and drilling to casing point.

EXHIBIT "D"

MULTI-POINT REQUIREMENTS TO ACCOMPANY A.P.D.

Attached to Form 9-331C
William C. Kirkwood
Cromwell #33-29
SW SE Sec. 29 T31S R15E
741' FSL & 2023' FEL
Garfield County, Utah

1. Existing Roads

- A. The proposed well site and elevation plat is shown as EXHIBIT "A". Staking included two 200' directional reference stakes, also shown on EXHIBIT "A".
- B. From Hanksville Post Office, go Easterly on Highway 95 for 18.2 miles; turn left on BLM dirt road to Poison Spring Canyon; proceed 16.4 miles to Dirty Devil River. Ford river and take road around Buckacre Point and into North Hatch Canyon. Continue up North Hatch Canyon to intersection; take road into South Hatch Canyon into Section 32 to flagged access road.
- C. All roads to location are color-coded on EXHIBIT "E". A new access road from the existing road will be used as shown on EXHIBIT "E".
- D. This is an exploratory well. All existing roads within a three-mile radius are shown on EXHIBIT "E".
- E. N/A
- F. The existing roads need no improvement except to clear off rocks and repair winter damage.

2. Planned Access Roads

Map showing all necessary access roads to be constructed or reconstructed is shown as EXHIBIT "E" for the following:

A. Drilling Operations

- 1. If rocks are removed, the 0.7 mile of new access road can be used without blading. No surfacing is planned. The truck-mounted rig used for drilling weighs approximately 8 tons.

2. The grade will be 5 %.
3. No turnouts are planned.
4. No drainage design is planned.
5. No culverts are needed.
6. No gates or fence cuts and cattleguards will be required.
7. The new access road to be used was center line flagged. This road does cross B.L.M. lands, as shown on EXHIBIT "E".

B. Production

1. The grade on the existing roads ranges from 0-15%; most areas are 3-4%. No road construction or upgrading is planned if well is productive.

3. Location of Existing Wells

For all existing wells within two mile radius of Exploratory well, see EXHIBIT "F".

- (1) There are 0 water wells within a two mile radius of this location.
- (2) There are 0 abandoned wells in this two mile radius.
- (3) There are 0 temporarily abandoned wells.
- (4) There are 0 disposal wells.
- (5) There are 0 wells presently being drilled.
- (6) There are 0 producing wells within this two mile radius.
- (7) There are 0 shut-in wells.
- (8) There are 0 injection wells.
- (9) There are 0 monitoring or observation wells for other uses.
- (10) There are several core holes for prospecting located throughout the canyon lands.

4. Location of Existing and/or Proposed Facilities

A. Within one-mile radius of location, the following existing facilities are owned or controlled by lessee/operator:

- (1) Tank-Batteries: None

(2) Production Facilities: None

(3) Oil Gathering Lines: None

(4) Gas Gathering Lines: None

(5) Injection Lines: None

(6) Disposal Lines: None

B. If production is obtained, there will be no production facilities installed at this time.

5. Location and Type of Water Source

No water will be required. This well is to be air-drilled.

6. Construction Materials

No construction materials are needed for any phase of the proposed operations.

7. Handling of Waste Materials and Disposal

(1) There will be no drill cuttings. This well is to be air-drilled and exhaust will be dispersed into the atmosphere.

(2) There will be no drill fluids and no pits will be dug. If any water is encountered during drilling, a surface tank will be set.

(3) Garbage and trash will be collected in containers and hauled away to approved sanitary landfill. Human waste will be collected in chemical facility and hauled away.

(4) All materials used during drilling will be removed from the drillsite within 30 days after completion of drilling.

8. Ancillary Facilities

No air strip, camp or other facilities will be built during drilling of this well.

9. Well Site Layout

(1) No drill pad will be constructed for drilling this well.

(2) A truck-mounted rig will be used. The truck is approximately 30' long and weighs approximately 8 tons.

- (3) No pits will be dug. There will be no living facilities or trailers on site.

10. Plans for Restoration

- (1) Such disturbance as will be created by this drilling operation can be easily repaired should this area be finalized as a Wilderness and Recreation Area.
- (2) After drilling operations cease, revegetation and restoration will be performed in accordance with B.L.M. recommendations. This will be undertaken within whatever time frame the B.L.M. deems advisable.

11. Other Information

- (1) The soil is sandy loam intermixed with rock. The location is situated between Fiddler Butte to the Southwest, Gunsight Butte and Sunset Pass to the East, unnamed Butte and Ridge to West - Southwest and North, respectively. The area vegetation is cactus, cedar shadescall, desert trumpet, rabbit brush and cheatgrass. There are cattle, deer, rabbits, rodents and chubars in the area.
- (2) The primary surface use is for grazing and recreation. The surface is owned by the U.S. Government.
- (3) The closest live water is in South Hatch Canyon, 3/4 mile South of location, as shown on EXHIBIT "E".

The closest dwelling is Hite Marina, located 19 miles + Southerly from location.

There are no known archaeological, historical, or cultural heritages that will be disturbed by this drilling.

- (4) There are no reported restrictions or reservations noted on the oil and gas lease.
- (5) Drilling is planned for on or about June 15, 1980. It is anticipated that the casing point will be reached within 4 days after commencement of drilling.

12. Lessee's or Operator's Representative

George Lapaseotes
Agent Consultant for
William C. Kirkwood
600 South Cherry Street
Suite 1201
Denver, Colorado 80222
Phone (303) 321-2217

William C. Vandeventer
William C. Kirkwood
Drawer 3439
Casper, Wyoming 82601
(307) 265-5178

13. Certification

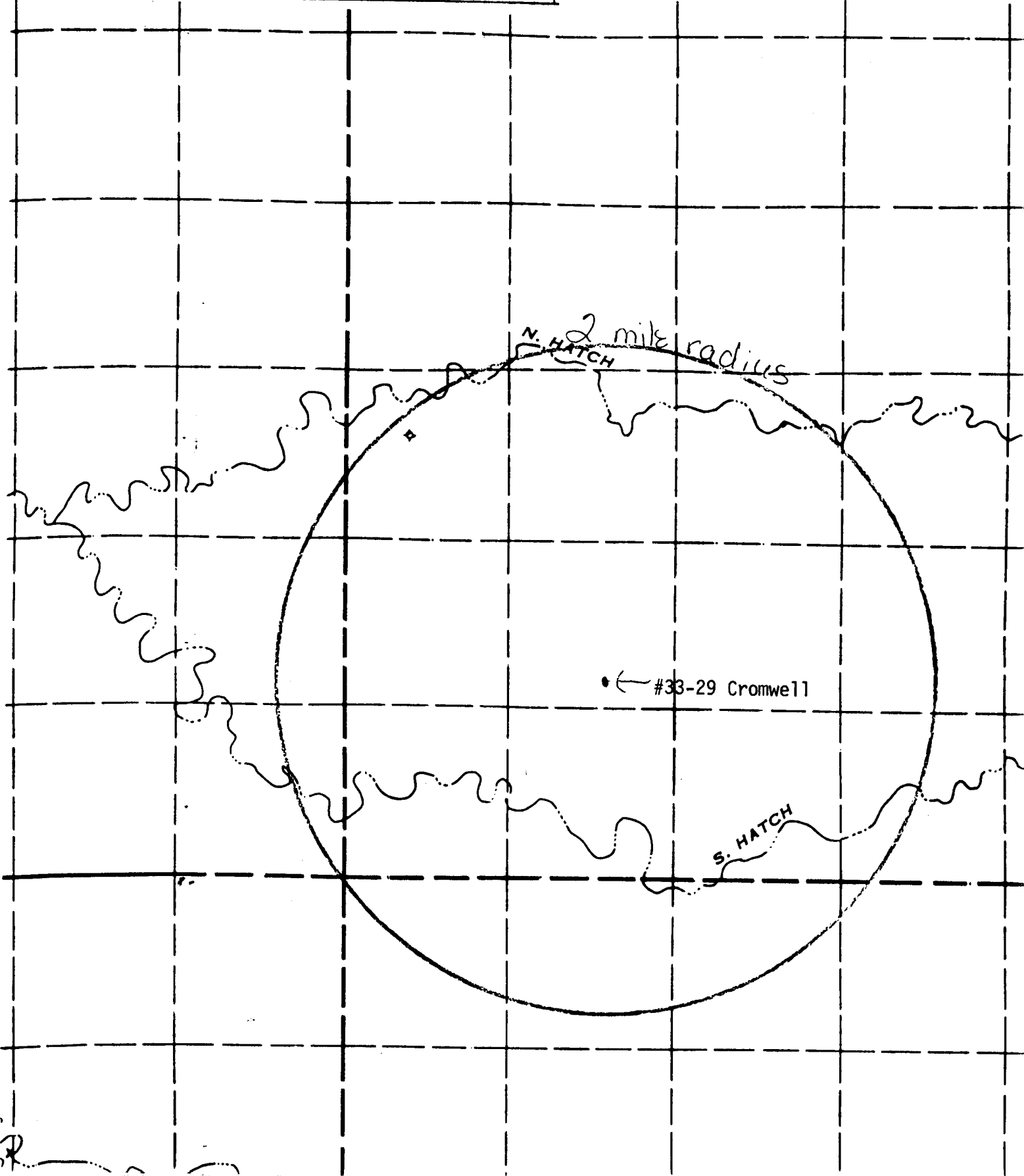
I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsite and access route; that I am familiar with the conditions which presently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed by William C. Kirkwood and its contractors and sub-contractors in conformity with this plan and the terms and conditions under which it is approved.

Date

George Lapaseotes
Agent Consultant for
William C. Kirkwood

LEGEND

- | | |
|-----------------------|----------------------------|
| ● LOCATION | * OIL & GAS WELL |
| ◆ DRY HOLE | * ABANDONED OIL & GAS WELL |
| ● OIL WELL | * GAS WELL |
| ◆ ABANDONED OIL WELL | * ABANDONED GAS WELL |
| ▲ TRIANGULATION POINT | □ WATER WELL |



UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

DUPLICATE

5. LEASE DESIGNATION AND SERIAL NO.

U-21476

6. INDIAN, ALLOTTEE OR TRIBE NAME

N/A

7. UNIT AGREEMENT NAME

N/A Watch Canyon

8. FARM OR LEASE NAME

Cromwell

9. WELL NO.

#33-29

10. FIELD AND POOL, OR WILDCAT

Wildcat

11. SEC., T., R., M., OR BLK.
AND SURVEY OR AREA

Sec. 29 T31S R15E

12. COUNTY OR PARISH 13. STATE

Garfield

Utah

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK

DRILL ☒DEEPEN ☐PLUG BACK ☐

b. TYPE OF WELL

OIL
WELL ☒GAS
WELL ☐

OTHER

SINGLE
ZONE ☒MULTIPLE
ZONE ☐

2. NAME OF OPERATOR

William C. Kirkwood

3. ADDRESS OF OPERATOR

P. O. Drawer 3439 Casper, Wyoming 82602

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)*
At surface

741' FSL & 2023' FEL (SWSE)

At proposed prod. zone

Same

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*

Approximately 49 miles East-Southeast of Hanksville, Utah

15. DISTANCE FROM PROPOSED*

LOCATION TO NEAREST
PROPERTY OR LEASE LINE, FT.
(Also to nearest drlg. unit line, if any)

741'

16. NO. OF ACRES IN LEASE

1872.44

17. NO. OF ACRES ASSIGNED
TO THIS WELL

40

18. DISTANCE FROM PROPOSED LOCATION*
TO NEAREST WELL, DRILLING, COMPLETED,
OR APPLIED FOR, ON THIS LEASE, FT.

2640' +

19. PROPOSED DEPTH

620'

20. ROTARY OR CABLE TOOLS

Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)

5060' GR

22. APPROX. DATE WORK WILL START*

June 15, 1980

23.

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
8 1/2"	6 5/8" New	24# K-55 8 Rd.	20'	10 sxs Cement, Class "G" 2% CaCl
5 5/8"	4 1/2" New	9.5# K-55 8 Rd.	620'	50 sxs Cement, Class "G" 2% CaCl.

1. Drill 8 1/2" hole and set 6 5/8" surface casing to 20' with good returns.
2. Log B.O.P. checks in daily drill reports and drill 5 5/8" hole to 620'.
3. Run tests if warranted and run 4 1/2" casing if productive.
4. Run logs, as needed, and perforate and stimulate as needed.

EXHIBITS ATTACHED:

- "A" Location and Elevation Plat
- "B" The Ten-Point Compliance Program
- "D" The Multi-Point Requirements for A.P.D.
- "E" Access Road Map to Location
- "F" Radius Map of Field

RECEIVED
JUL 08 1980DIVISION OF
OIL, GAS & MINING

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24.

SIGNED

Wm C. Kirkwood

TITLE

Petroleum Engineer

DATE

2-14-80

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED BY

W. J. Martin

FOR

E. W. GUYNN
DISTRICT ENGINEER

DATE

JUL 03 1980

CONDITIONS OF APPROVAL, IF ANY:

CONDITIONS OF APPROVAL ATTACHED
TO OPERATOR'S COPYNOTICE OF APPROVAL
*See Instructions On Reverse SideFLARING OR VENTING OF
GAS IS SUBJECT TO NTL 4-A
DATED 1/1/80

State of G UTAH

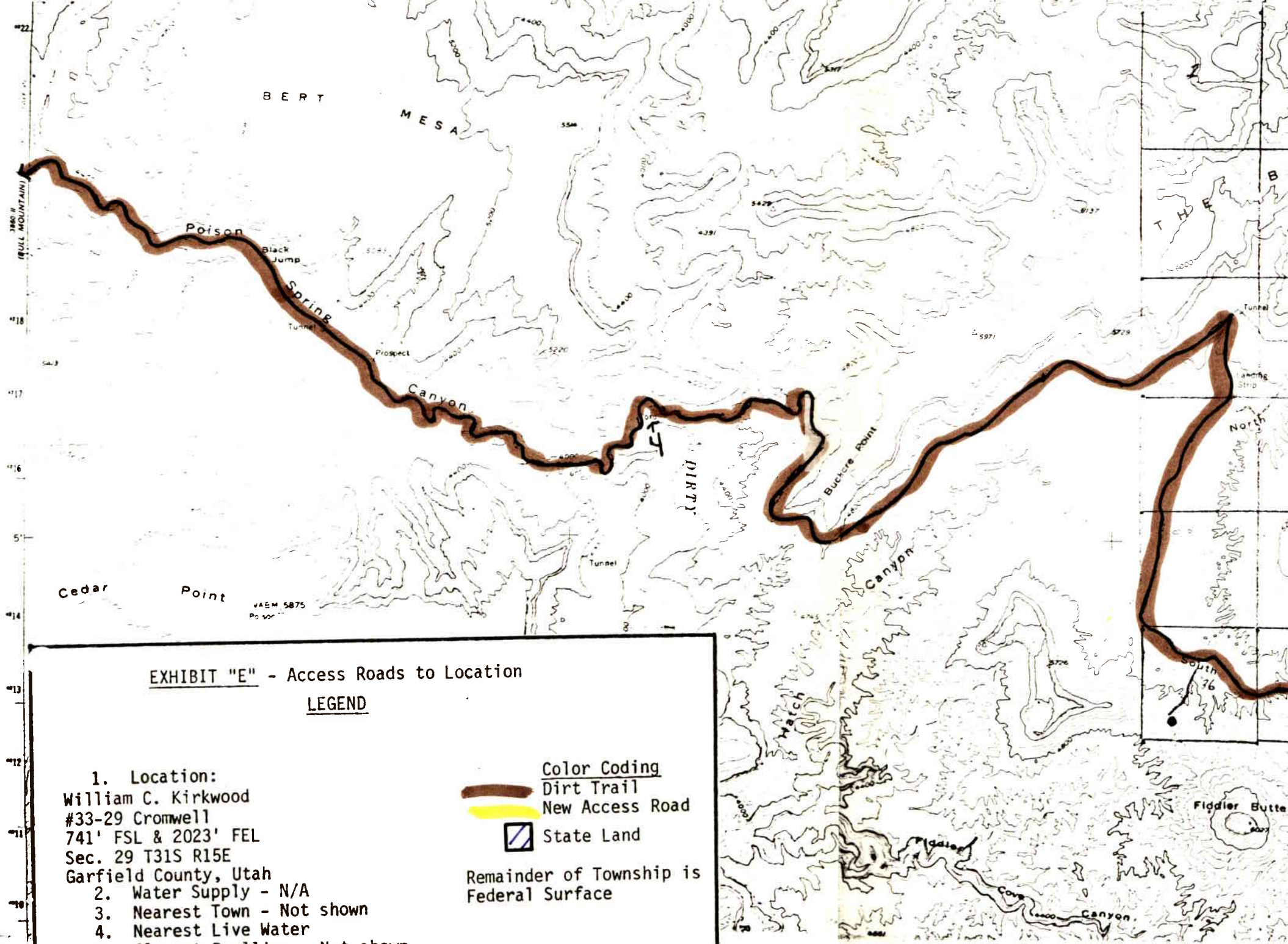

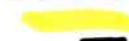



EXHIBIT "E" - Access Roads to Location

LEGEND

Color Coding

-  Dirt Trail
-  New Access Road
-  State Land

Remainder of Township is
Federal Surface

1. Location:
William C. Kirkwood
#33-29 Cromwell
741' FSL & 2023' FEL
Sec. 29 T31S R15E
Garfield County, Utah
2. Water Supply - N/A
3. Nearest Town - Not shown
4. Nearest Live Water
5. Closest Dwelling - Not shown



**** FILE NOTATIONS ****

DATE: July 8, 1980
OPERATOR: William C. Kirkwood
WELL NO: Hatch Canyon Unit #33-29 (Cromwell)
Location: Sec. 29 T. 31S R. 15E County: Hayfield

File Prepared: ☒

Entered on N.I.D: ☒

Card Indexed: ☒

Completion Sheet: ☒

API Number 43-017-30090

CHECKED BY:

Petroleum Engineer: M.T. Minder 7-7-80

Director: _____

Administrative Aide: α on unit boundary spacing

APPROVAL LETTER:

Bond Required: ☐

Survey Plat Required: ☐

Order No. _____

O.K. Rule C-3 ☐

Rule C-3(c), Topographic Exception - company owns or controls acreage within a 660' radius of proposed site

Lease Designation Red Unit

Plotted on Map ☒

Approval Letter Written ☒ Wtm

Hot Line ☒

P.I. ☒

Unit approval

July 9, 1980

William C. Kirkwood
P.O. Drawer 3439
Casper, Wyoming 82601

RE: HCU #33-29 (Gronwall), Sec. 29, T. 31S, R. 15E., Garfield County, Utah
HCU #44-4 (White Rim), Sec. 4, T. 31S, R. 15E., Garfield County, Utah
HCU #44-15 (Garfield), Sec. 15, T. 31S, R. 15E., Garfield County, Utah
HCU #41-20 (Eastex), Sec. 20, T. 31S, R. 15E., Garfield County, Utah

Insofar as this office is concerned, approval to drill the above referred to oil wells is hereby granted in accordance with Section 40-6-11, Utah Code Annotated 1953; and predicated on Rule A-3, General Rules and Regulations and Rules of Practice and Procedure.

Should you determine that it will be necessary to plug and abandon these wells, you are hereby requested to immediately notify the following:

MICHAEL T. MINDER - Petroleum Engineer
Office: 533-5771
Home: 876-3001

Enclosed please find Form OGC-8-X, which is to be completed whether or not water sands (aquifers) are encountered during drilling. Your cooperation in completing this form will be appreciated.

Further, it is requested that this Division be notified within 24 hours after drilling operations commence, and that the drilling contractor and rig number be identified.

The API numbers assigned to these wells are #33-29: 43-017-30090;
#44-4: 43-017-30091; #44-15: 43-017-30092; #41-20: 43-017-30093.

Sincerely,

DIVISION OF OIL, GAS AND MINING

Michael T. Minder
Petroleum Engineer

/btm

cc: USGS

November 20, 1980

William Kirkwood
P. O. Drawer 3439
Casper, Wyoming 82602

RE: Well No. Cromwell #33-29
Sec. 29, T. 81S, R. 15E,
Garfield County, Utah
August 1980 thru October 1980

Gentlemen:

Our records indicate that you have not filed the monthly drilling reports for the month (S) indicated above on the subject well(s).

Rule C-22, General Rules and Regulations and Rules of Practice and Procedure, requires that said reports be filed on or before the sixteenth (16) day of the succeeding month. This report may be filed on Form OGC-1B, (U.S. Geological Survey Form 9-331) "Sundry Notices and Reports on Wells", or on company forms containing substantially the same information. We are enclosing forms for your convenience.

Your prompt attention to the above will be greatly appreciated.

Very truly yours,

DIVISION OF OIL, GAS, AND MINING

Debbie Beauregard
DEBBIE BEAUREGARD
CLERK TYPIST

D-A

SCOTT M. MATHESON
Governor



OIL, GAS, AND MINING BOARD

GORDON E. HARMSTON
Executive Director,
NATURAL RESOURCES

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING
1588 West North Temple
Salt Lake City, Utah 84116
(801) 533-5771

CHARLES R. HENDERSON
Chairman

CLEON B. FEIGHT
Director

JOHN L. BELL
C. RAY JUVELIN
THADIS W. BOX
MAXILIAN A. FARBMAN
EDWARD T. BECK
E. STEELE McINTYRE

May 22, 1981

William C. Kirkwood
P.O. Box Drawer 3439
Casper, Wyoming 82601

Re: SEE ATTACHED SHEET ON WELLS DUE

Gentlemen:

Our records indicate that you have not filed the Monthly drilling reports for the months indicated above on the subject wells.

Rule C-22, General Rules and Regulations and Rules of Practice and Procedure, requires that said reports be filed on or before the sixteenth (16) day of the succeeding month. This report may be filed on Form OGC-1B, (U.S. Geological Survey Form 9-331) "Sundry Notices and Reports on Wells", or on company forms containing substantially the same information. We are enclosing forms for your convenience.

Your prompt attention to the above will be greatly appreciated.

Very truly yours,

DIVISION OF OIL, GAS, AND MINING

A handwritten signature in cursive script that reads "Sandy Bates".
SANDY BATES
CLERK-TYPIST

1. Well No. Technology #14-36
Sec. 36, T.31S. R.14E.
Garfield County, Utah
(July 1980- April 1981)
2. Well No. Cromwell #33-29
Sec. 29, T.31S. R.15E.
Garfield County, Utah
(December 1980- April 1981)
3. Well No. State #44-32
Sec. 32, T.31S. R.15E.
Garfield County, Utah
(December 1980- April 1981)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN DUPLI

(See other in-
structions on
reverse side)Form approved.
Budget Bureau No. 42-R-355.

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

1a. TYPE OF WELL: OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> DRY <input type="checkbox"/> Other _____				5. LEASE DESIGNATION AND SERIAL NO. U-21476	
b. TYPE OF COMPLETION: NEW WELL <input checked="" type="checkbox"/> WORK OVER <input type="checkbox"/> DEEP-EN <input type="checkbox"/> PLUG BACK <input type="checkbox"/> DIFF. RESVR. <input type="checkbox"/> Other _____				6. IF INDIAN, ALLOTTEE OR TRIBE NAME N/A	
2. NAME OF OPERATOR William C. Kirkwood				7. UNIT AGREEMENT NAME Hatch Canyon	
3. ADDRESS OF OPERATOR P.O. Box 3439 Casper, Wyoming 82604				8. FARM OR LEASE NAME Cromwell	
4. LOCATION OF WELL (Report location clearly and in accordance with USGS requirements) At surface 2023' FEL 741' FSL At top prod. interval reported below same At total depth same				9. WELL NO. #33-29	
14. PERMIT NO. DIVISION OF OIL, GAS & MINING 7-980 43-017-30070				10. FIELD AND POOL, OR WILDCAT Wildcat	
11. SEC. T. R., M., OR BLOCK AND SURVEY OR AREA Section 29, T31S, R15E				12. COUNTY OR PARISH Garfield	
13. STATE Utah				15. DATE SPUDDED 7/5/80	
16. DATE T.D. REACHED 7/8/80				17. DATE COMPL. (Ready to prod.) 9-80	
18. ELEVATIONS (DF, FKB, ET, GR, ETC.) 5120' GL				19. ELEV. CASINGHEAD	
20. TOTAL DEPTH, MD & TVD 700'		21. PLUG, BACK T.D., MD & TVD		22. IF MULTIPLE COMPL., HOW MANY*	
23. INTERVALS DRILLED BY all		ROTARY TOOLS		CABLE TOOLS	
24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)* 184'-258' White Rim				25. WAS DIRECTIONAL SURVEY MADE no	
26. TYPE ELECTRIC AND OTHER LOGS RUN Gamma Ray-Caliper Density Resistance				27. WAS WELL CORED VCS	
28. CASING RECORD (Report all strings set in well)					
CASINO SIZE		WEIGHT, LB./FT.		DEPTH SET (MD)	
6 5/8"		20#		20'	
4 1/2"		9.5#		333.77'	
HOLE SIZE		CEMENTING RECORD		AMOUNT PULLED	
7 7/8"		5 sacks			
6"		60 sacks			
29. LINER RECORD					
SIZE		TOP (MD)		BOTTOM (MD)	
SACKS CEMENT*		SCREEN (MD)			
30. TUBING RECORD					
SIZE		DEPTH SET (MD)		PACKER SET (MD)	
31. PERFORATION RECORD (Interval, size and number)					
32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.					
DEPTH INTERVAL (MD)		AMOUNT AND KIND OF MATERIAL USED			
33.* PRODUCTION					
DATE FIRST PRODUCTION		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)			WELL STATUS (Producing or shut-in) SI
DATE OF TEST		HOURS TESTED		CHOKE SIZE	
PROD'N. FOR TEST PERIOD		OIL—BBL.		GAS—MCF.	
WATER—BBL.		GAS-OIL RATIO			
FLOW. TUBING PRESS.		CASINO PRESSURE		CALCULATED 24-HOUR RATE	
OIL—BBL.		GAS—MCF.		WATER—BBL.	
OIL GRAVITY-API (CORR.)					
34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)					TEST WITNESSED BY
35. LIST OF ATTACHMENTS					
36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records					
SIGNED <u>Wm. C. Kirkwood</u>		TITLE <u>Act. Engr.</u>		DATE <u>10-25-80</u>	

* (See Instructions and Spaces for Additional Data on Reverse Side)

William C. Kirkwood 33-29 Cromwell
 T31S, R15E, SEc. 29
 Elevation 5160'

DEPTH	FORMATION	LITHOLOGY	THICKNESS DRILLED
0-184'	Moenkopi	Red Shale & Siltstone with White Sandstone layers	184'
184-228'	White Rim Upper	Dolomite with Sandstone layers	44'
228-487'	White Rim	White Sandstone	259'
487-556'	Organ	Red Shale & siltstone	69'
556-700'	Cedar Mesa	Tan-White Sandstone	144'

T.D. at 700' in Cedar Mesa

Cored from 184' to 487' in White Rim, from 184'-196', approximately 6' heavy saturation throughout core with some running at surface 6' with light saturation and some in pockets and layers.

201'-228', 27' or Dolomite Mudstone conglomerate with Sandstone Matrix or Dolomite and Sandstone layered with saturation in Sandstone Matrix of layers of approximate 1' of heavy saturation at 206' in Sandstone layer

228-354' Sandstone with saturation (medium - heavy)
 228-258' throughout core 30' & from
 258-354' with saturation in thin layers and pockets 96'
 354-487' Saturation in thin layers and pockets -133'

Cored from 560-620' in Cedar Mesa.
 556-562' 6' saturation throughout
 cored from 562-579'

bailed 3 gallons from bottom of White Rim with slight film on top of water

bailed 2 gallons from T.D. Cedar Mesa no oil apparent.

Odor of Gas noticed after trip out.
 Gas burned when lit by welder.

WILLIAM C. KIRKWOOD

Suite 300 Market Square Building — 307/265-5178

P. O. Drawer 3439 — Casper, Wyoming 82602



OIL & GAS EXPLORATION & PRODUCTION

January 29, 1982

State of Utah
Division of Oil, Gas and Mining
1588 West North Temple
Salt Lake City, UT 84116

RE: Filing Additions to USGS Form
9-330 or OGCC-3

William C. Kirkwood
#33-29 Cromwell
2023' FEL 741' FSL
Sec. 29, T31S, R15E
Garfield County, Utah

Gentlemen:

Enclosed is a copy of the logs (where run), sample and core descriptions, geologic summaries and other data obtained during drilling and completion operations to date.

Our delay in the further completion of this well, is due to testing presently being done to determine the best method of completion to be used to produce oil from this reservoir. Testing is being done by the University of Utah Fuels Engineering Department on core samples and oil from this reservoir. Additional wells have been cored to obtain samples for analysis of reservoir characteristics and to further delineate oil reserves in the Hatch Canyon Unit. In addition several wells of a pilot test pattern have been drilled.

If you require further information or have any questions please contact me.

Sincerely,

Robert Montgomery

RM:bal

Enclosures

William C. Kirkwood
#14-36 Technology
2076' FWL 746' FSL
Sec 36 Twp 31S R 14E
Garfield County, Utah
G.L. 4823'

Spudded 6/23/80
T.D. 6/25/80 462'

Deepened 7/1/80
T.D. 7/12/80 1000'

William C. Kirkwood
#33-29 Cromwell
2023' FEL 741' FSL
Sec 29 Twp 31S R 15E
Garfield County, Utah
G.L. 5120

Spudded 7/5/80
T.D. 7/8/80 700'

William C. Kirkwood
#23-8 Magnum
1934' FEL 1667' FSL
Sec 8 Twp 31S R 15E
Garfield County, Utah
G.L. 5084

Spudded 7/17/80
T.D. 7/22/80 1100'

William C. Kirkwood
#22-20 Monroe
2962' FEL 1790' FNL
Sec 20 Twp 31S R 15E
Garfield County, Utah
G.L. 4988

Spudded 7/9/80
T.D. 7/15/80 800'

William C. Kirkwood
#14-15 Remington
554' FWL 697' FSL
Sec 15 Twp 31S R 15E
Garfield County, Utah
G.L. 5307'

Spudded 8/1/80
T.D. 8/3/80 1540'

William C. Kirkwood
#14-15 Garfield
4497' FWL 599' FSL
Sec 15 Twp 31S R 15E
Garfield County, Utah
G.L. 5321'

Spudded 8/4/80
T.D. 8/6/80 1000'

William C. Kirkwood
#21-15 Winfield
2222' FWL 481' FNL
Sec 15 Twp 31S R 15E
Garfield County, Utah
G.L. 6127'

Spudded 8/12/80
T.D. 8/14/80 1800'

William C. Kirkwood
#44-4 White Rim
401' FEL 1498' FSL
Sec 4 Twp 31S R 15E
Garfield County, Utah
G.L. 6005'

Spudded 8/14/80
T.D. 8/16/80 1640'

William C. Kirkwood
#34-16 State
699' FSL 1842' FEL
Sec 16 Twp 31S R 15E
Garfield County, Utah
G.L. 5058'

Spudded 8/22/80
T.D. 8/24/80 620'

William C. Kirkwood
#34-16 Hatch Canyon Unit
SWSE 16-31S-15E
699' FSL 1842' FEL
Spudded 8/22/80
T.D. 620'
G.L. 5058'

William C. Kirkwood
34-16A Hatch Canyon Unit
SWSE 16-31S-15E
752 FSL 1789 FEL

Spudded 10/6/80
T.D. 440'
G.L. 5058'

William C. Kirkwood
34-16B Hatch Canyon Unit
SWSE 16-31S-15E
805' FSL 1736' FEL

Spudded 6/21/81
T.D. 800'
G.L. 5058'

William C. Kirkwood
34-16C Hatch Canyon Unit
SWSE 16-31S-15E
699' FSL 1736' FEL

Spudded 12/19/81
T.D. 500'
G.L. 5058'

William C. Kirkwood
34-16C Hatch Canyon Unit
SWSE 16-31S-15E
805' FSL 1842' FEL

Spudded 6/12/82
T.D. 510'
G.L. 5058'

William C. Kirkwood
#33-29 Cromwell
2023' FEL 741' FSL
Sec 29 Twp 31S R 15E
Garfield Co., Utah
G.L. 5120

Spudded	7/5/80	
T.D.	7/8/80	700'

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

SUBMIT TRIPPLICATE*
(Other instructions on
reverse side)

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/> 2. NAME OF OPERATOR W. C. Kirkwood Oil and Gas 3. ADDRESS OF OPERATOR P. O. Drawer 3439 Casper, WY 82602 4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface Wells located in Townships 31 and 32 South Ranges 14 & 15 East 14. PERMIT NO. 15. ELEVATIONS (Show whether DF, RT, OR, etc.)	5. LEASE DESIGNATION AND SERIAL NO. 6. IF INDIAN, ALLOTTEE OR TRIBE NAME 7. UNIT AGREEMENT NAME 8. FARM OR LEASE NAME 9. WELL NO. 10. FIELD AND POOL, OR WILDCAT 11. SEC., T., R., M., OR BLM. AND SURVEY OR AREA 12. COUNTY OR PARISH 13. STATE
---	--

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) <u>Well Status</u> <input type="checkbox"/>	
(Other) <input type="checkbox"/>		(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)	

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

The wells described on the enclosed list are located within the Hatch Canyon Federal Oil and Gas Unit. This unit is located within the Tar Sand Triangle Special Tar Sand Area. All operations within the Hatch Canyon Unit have been suspended pending conversion of the federal leases within the unit to Combined Hydrocarbon Leases. Thus all operations on these wells have been suspended until conversion has taken place. At that time an additional Sundry Notice will be submitted outlining future activities involving these wells.

MAR 26 1984

DIVISION OF
OIL, GAS & MINING

18. I hereby certify that the foregoing is true and correct

SIGNED

TITLE Geologist

DATE March 22, 1984

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

SUBMIT IN TRIPLICATE*
(Other instructions on
reverse side)

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/> 2. NAME OF OPERATOR William C. Kirkwood 3. ADDRESS OF OPERATOR P.O. Box 3439, Casper, WY 82602 4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 2023' FEL 741' FSL 14. PERMIT NO. 43-017-30090		5. LEASE DESIGNATION AND SERIAL NO. U-21476 6. IF INDIAN, ALLOTTEE OR TRIBE NAME N/A 7. UNIT AGREEMENT NAME Hatch Canyon 8. FARM OR LEASE NAME Cromwell 9. WELL NO. 33-29 10. FIELD AND POOL, OR WILDCAT Wildcat 11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 29, T31S, R15E 12. COUNTY OR PARISH 13. STATE Garfield UT
15. ELEVATIONS (Show whether DF, RT, OR, etc.) 5120 GL		

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>
(Other) <input type="checkbox"/>	(Other) <input checked="" type="checkbox"/>

SUBSEQUENT REPORT OF:

WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
(Other) <input type="checkbox"/>	(Other) <input type="checkbox"/>

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

This well is located in the Hatch Canyon Unit. All operations in this Unit have been suspended pending the conversion of Federal Oil and Gas leases within this Unit to Combined Hydrocarbon leases. Once these leases are converted a new Combined Hydrocarbon Unit will be formed and operations resumed. Until that time this well has been shut in and temporarily abandoned.

RECEIVED

JAN 17 1985

DIVISION OF
OIL, GAS & MINING

18. I hereby certify that the foregoing is true and correct.

SIGNED

Robert Martenson

TITLE Geologist

DATE 1-4-85

(This space for Federal or State office use)

APPROVED BY

CONDITIONS OF APPROVAL, IF ANY:

TITLE

DATE

Certified #P492-469129

1-14-85

*See Instructions on Reverse Side



UTAH
NATURAL RESOURCES
Oil, Gas & Mining

355 West North Temple, 3 Triad Center, Suite 350, Salt Lake City, Ut
84180-1203, (801-538-5340)

an equal opportunity employee

Page 1 of 1

MONTHLY OIL AND GAS PRODUCTION REPORT

Operator name and address:

KIRKWOOD, WILLIAM C.
P O BOX 3439
CASPER WY 82602
ATTN: AUDREY FISHER

HATCH CYN UNIT

* Combined Hydrocarbon
* Ope. Filed Bankruptcy

Utah Account No. N3260

Report Period (Month/Year) 1 / 89

Amended Report ☐

Well Name			Producing Zone	Days Oper	Production Volume		
API Number	Entity	Location			Oil (BBL)	Gas (MSCF)	Water (BBL)
REMINGTON 14-15	Comp 7-30-80		SWSW WHRM	—	SOW U-21037		
4301730086	09645 31S 15E 15						
WINFIELD 21-15	Comp 7-30-80		NENW WHRM	11015	SOW U-21037		
4301730087	09645 31S 15E 15						
MONROE 22-20	Comp 7-30-80		SENE WHRM	11016	SOW U-21477	9-29-89 per Theresa / P.A.	
4301730088	09645 31S 15E 20						
MAGNUM 23-8	Comp 7-30-80		NESW WHRM	11017	SOW U-21478	Opp. has a bond, they are	
4301730089	09645 31S 15E 8						
CRMWELL 33-29	Comp 7-30-80		SWSE WHRM	11018	SOW U-21476	110. to PA 4, Fred Lopez	
4301730090	09645 31S 15E 29						
WHITE RIM 44-4	Comp 7-30-80		SESE WHRM	11019	SOW U-21083	11019. will probably never	
4301730091	09645 31S 15E 4						
WINFIELD 44-15	Comp 7-30-80		SESE WHRM	11020	SOW U-21037	11020.	
4301730092	09645 31S 15E 15						
STATE 34-16	Comp 7-30-80		SWSE WHRM	11021	SOW ML-27138		
4301730096	09645 31S 15E 16						
STATE 34-16A	Comp 7-30-80		SWSE WHRM	11022	SOW ML-27138	St. Leases	
4301730098	09645 31S 15E 16						
HATCH CANYON U 34-16B	Comp 7-30-80		SWSE WHRM	11023	SOW ML-27138		
4301730107	09645 31S 15E 16						
TECHNOLOGY 14-36					SOW (not in unit)		
4301730085	10929 31S 14E 36		WHRM				
TOTAL							

Comments (attach separate sheet if necessary)

Entity 9645 ok. No P.A.'s in Unit!

9-25-89 All wells currently "SOW" status's for

42-017-30-0-0 is the only well that will retain entity 9645.

I have reviewed this report and certify the information to be accurate and complete.

Date _____

Authorized signature _____

Telephone _____

PLEASE COMPLETE FORMS IN BLACK INK

OPERATOR WILLIAM C. KIRKWOOD

OPERATOR ACCT. NO. N 3260

ADDRESS P. O. BOX 3439

CASPER, WYOMING 82602

ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	WELL LOCATION					SPUD DATE	EFFECTIVE DATE
					QQ	SC	TP	RG	COUNTY		
D	9645	11015	43-017-30087	WINFIELD 21-15	NENW	15	31S	15E	GARFIELD		9-18-89
WELL 1 COMMENTS:											
** HATCH CANYON UNIT TERMINATED EFFECTIVE 9-18-89. ALL WELLS WITHIN UNIT BOUNDRY ARE SOW AND NOW HAVE INDIVIDUAL ENTITY NUMBERS. ONLY WELL WITH ORIGINAL # IS 43-017-30086, REMINGTON 14-15.											
D	9645	11016	43-017-30088	MONROE 22-20	SENW	20	31S	15E	GARFIELD		9-18-89
WELL 2 COMMENTS:											
D	9645	11017	43-017-30089	MAGNUM 23-8	NESW	8	31S	15E	GARFIELD		9-18-89
WELL 3 COMMENTS:											
D	9645	11018	43-017-30090	CRMWELL 33-29	SWSE	29	31S	15E	GARFIELD		9-18-89
WELL 4 COMMENTS:											
D	9645	11019	43-017-30091	WHITE RIM 44-4	SESE	4	31S	15E	GARFIELD		9-18-89
WELL 5 COMMENTS:											

ACTION CODES (See instructions on back of form)

- A - Establish new entity for new well (single well only)
- B - Add new well to existing entity (group or unit well)
- C - Re-assign well from one existing entity to another existing entity
- D - Re-assign well from one existing entity to a new entity
- E - Other (explain in comments section)

NOTE: Use COMMENT section to explain why each Action Code was selected.

(3/89)

LISHA ROMERO

Signature

ADMIN. ANALYST

9-29-89

Title

Date

Phone No. (801) 538-5340

Bureau of Land Management
Branch of Fluid Minerals (U-922)
324 South State Street
Salt Lake City, Utah 84111-2303

3170
(U-922)

September 20, 1989

CERTIFIED MAIL - Return Receipt Requested

William C. Kirkwood
P.O. Drawer 3424
Casper, Wyoming 82402

Gentlemen:

Pursuant to our letter of August 8, 1989, the indefinite suspension of Section 9 drilling obligations within the Hatch Canyon Unit Area was lifted September 11, 1989. A copy of our August 8, 1989, correspondence and the Certified Return Receipt is enclosed for your records.

As a result of the indefinite suspension being lifted, the Hatch Canyon Unit Agreement, Garfield County, Utah, automatically terminated, effective September 16, 1989, pursuant to the last paragraph of Section 9 of the Unit Agreement.

Copies of this letter are being distributed to the appropriate Federal agencies. It is requested that you furnish notice of this termination to each working interest owner, lessee, and lessor.

In accordance with 43 CFR 3165.2, you may request a State Director Review of this decision. Any party adversely affected by a State Director Review may appeal to the Interior Board of Land Appeals as stated in 43 CFR 3165.4.

Sincerely,

Orig. Sgd: J.A. Fouts

ACTING

Robert A. Henricks
Chief, Branch of Fluid Minerals

bcc: DM Cedar City
Hatch Canyon Unit File
Agr. Sec. Chron.
Fluid Chron
U-942
Utah State Land Board
HMS-RMP
DOGM

MCoulthard:jwr/19/89
0128V



State of Utah

DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

Norman H. Bangerter
Governor

Dee C. Hansen
Executive Director

Dianne R. Nielson, Ph.D.
Division Director

355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203
801-538-5340

December 4, 1992

TO: Utah Oil and Gas Well Operators

FROM: Don Staley - Administrative Manager, Oil and Gas ^{DTs}

RE: Annual Status Report of Shut-in, Temporarily-abandoned, and Suspended-Drilling Wells

This is a reminder that Utah Admin. R. 649-8-10 states that well operators shall submit annual status reports for (1) all drilling wells on which drilling operations have been suspended for more than 30 consecutive days as of December 31 and (2) for all wells that have been shut in or temporarily abandoned for more than 30 consecutive days as of December 31.

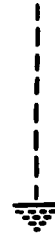
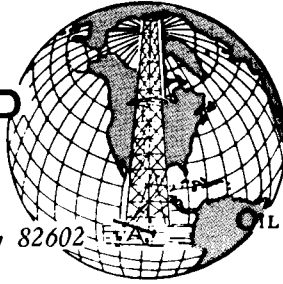
Be aware that the purpose for this report is to update the division's records for only those wells that will be shut in for long periods of time. Please do not submit reports for shut-in wells that will be returned to production within the next 60 days.

Please submit a brief status report for each well using Form 9, Sundry Notices and Reports on Wells (enclosed). Each report should include the complete well identification, the words "Annual Status Report," the well's status, a brief explanation of why the well is shut in, temporarily abandoned, or suspended, and a brief summary of any future plans for the well. All annual status reports should be submitted no later than February 15, 1993.

If you have questions regarding this matter, please feel free to call.

Enclosure

WILLIAM C. KIRKWOOD



120 South Durbin — 307/265-5178
P. O. Drawer 3439 — Casper, Wyoming 82602 — OIL & GAS EXPLORATION & PRODUCTION

RECEIVED

DEC 21 1992

DIVISION OF
OIL GAS & MINING

December 18, 1992

State of Utah
Dept. of Natural Resources
Division of Oil, Gas & Mining
355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, UT 84180-1203

Attn: Don Staley

Re: Annual Status Reports

Mr. Staley:

Enclosed you will find Sundry Notices completed for all of William C. Kirkwood's Garfield County, Utah wells. Our Engineer, Robert W. Kirkwood, has provided you with updates as per your request dated December 4, 1992.

Should you have any questions, or comments, please feel free to give us a call.

Sincerely,

KIRKWOOD OIL AND GAS

Mary L. Moore

Mary L. Moore
Production Assistant

MLM/m

Enclosures - 13

CC: Well Files

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

SUNDRY NOTICES AND REPORTS ON WELLS <small>Do not use this form for proposals to drill new wells, deepen existing wells, or to reenter plugged and abandoned wells. Use APPLICATION FOR PERMIT TO DRILL OR DEEPEN form for such proposals.</small>		5. Lease Designation and Serial Number: <p style="text-align: center;">U-21467</p>
		6. If Indian, Allottee or Tribe Name:
		7. Unit Agreement Name: <p style="text-align: center;">HATCH CANYON UNIT</p>
1. Type of Well: OIL <input checked="" type="checkbox"/> GAS <input type="checkbox"/> OTHER:		8. Well Name and Number: <p style="text-align: center;">Cromwell 33-29</p>
2. Name of Operator: <p style="text-align: center;">WILLIAM C. KIRKWOOD</p>		9. API Well Number: <p style="text-align: center;">4301730090</p>
3. Address and Telephone Number: <p style="text-align: center;">P. O. BOX 3439 CASPER, WY 82602-3439</p>		10. Field and Pool, or Wildcat:
4. Location of Well Footages: 2023' FEL, 741' FSL QQ, Sec., T., R., M.: Sec. 29, T31S, R15E		
County: Garfield State: Utah		

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

NOTICE OF INTENT <small>(Submit in Duplicate)</small>	SUBSEQUENT REPORT <small>(Submit Original Form Only)</small>
<div style="display: flex; justify-content: space-between;"> <div style="width: 48%;"> <input type="checkbox"/> Abandonment <input type="checkbox"/> Casing Repair <input type="checkbox"/> Change of Plans <input type="checkbox"/> Conversion to Injection <input type="checkbox"/> Fracture Treat <input type="checkbox"/> Multiple Completion <input type="checkbox"/> Other _____ </div> <div style="width: 48%;"> <input type="checkbox"/> New Construction <input type="checkbox"/> Pull or Alter Casing <input type="checkbox"/> Recompletion <input type="checkbox"/> Shoot or Acidize <input type="checkbox"/> Vent or Flare <input type="checkbox"/> Water Shut-Off </div> </div>	<div style="display: flex; justify-content: space-between;"> <div style="width: 48%;"> <input type="checkbox"/> Abandonment <input type="checkbox"/> Casing Repair <input type="checkbox"/> Change of Plans <input type="checkbox"/> Conversion to Injection <input type="checkbox"/> Fracture Treat <input type="checkbox"/> Other _____ </div> <div style="width: 48%;"> <input type="checkbox"/> New Construction <input type="checkbox"/> Pull or Alter Casing <input type="checkbox"/> Shoot or Acidize <input type="checkbox"/> Vent or Flare <input type="checkbox"/> Water Shut-Off </div> </div>
Approximate date work will start _____	Date of work completion _____ <small>Report results of Multiple Completions and Recompletions to different reservoirs on WELL COMPLETION OR RECOMPLETION AND LOG form. * Must be accompanied by a cement verification report.</small>

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

ANNUAL STATUS REPORT

The above referenced well was drilled and completed as an exploratory well in a heavy oil project. Although substantial oil reserves were found, low oil prices suspended further development and this well was put in a temporarily abandoned status.

13. _____

Name & Signature: *Robert L. White* Title: Engineer Date: 12/18/92

(This space for State use only)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals

SUBMIT IN TRIPLICATE

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

William C. Kirkwood

3. Address and Telephone No.

P.O. Box 3439, Casper, WY 82602 307 265-5178

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

2023' FEL, 741' FSL
Sec. 29, T31S, R15E

5. Lease Designation and Serial No.

U-21476

6. If Indian, Allottee or Tribe Name

NA

7. If Unit or CA, Agreement Designation

Hatch Canyon

8. Well Name and No.

Cromwell 33-29

9. API Well No.

43-017-30090

10. Field and Pool, or Exploratory Area

Wildcat

11. County or Parish, State

Garfield Co., UT

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

- ☒ Notice of Intent
☐ Subsequent Report
☐ Final Abandonment Notice

TYPE OF ACTION

- ☒ Abandonment
☐ Recompletion
☐ Plugging Back
☐ Casing Repair
☐ Altering Casing
☐ Other _____
☐ Change of Plans
☐ New Construction
☐ Non-Routine Fracturing
☐ Water Shut-Off
☐ Conversion to Injection
☐ Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Kirkwood proposes to abandon this well as follows:

- 1) Circulate well with 9 PPG fresh water bentonite gel
- 2) Set 5 sack surface plug
- 3) Install dry hole marker
- 4) Restore location as necessary

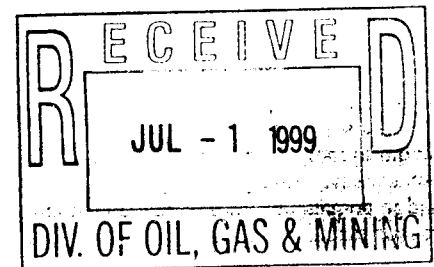
Accepted by the
Utah Division of
Oil, Gas and Mining

Date: 7-13-99

By: Rsk

COPY SENT TO OPERATOR

Date: 7-20-99
Initials: CHP



14. I hereby certify that the foregoing is true and correct

Signed

Title

Engineer

Date

6/28/99

(This space for Federal or State office use)

Approved by

Conditions of approval, if any:

Title

Date

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals

SUBMIT IN TRIPLICATE

1. Type of Well
☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator
William C. Kirkwood

3. Address and Telephone No.
P. O. Box 3439, Casper, WY 82602 307 265-5178

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
2023' FEL, 741' FSL
Sec. 29, T31S, R15E

5. Lease Designation and Serial No.
U-21476

6. If Indian, Allottee or Tribe Name
NA

7. If Unit or CA, Agreement Designation
Hatch Canyon Unit

8. Well Name and No.
Cromwell 33-29

9. API Well No.
43-017-30090

10. Field and Pool, or Exploratory Area
Wildcat

11. County or Parish, State
Garfield, UT

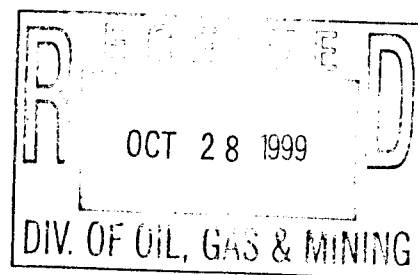
12. **CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA**

TYPE OF SUBMISSION	TYPE OF ACTION	
<input type="checkbox"/> Notice of Intent	<input checked="" type="checkbox"/> Abandonment	<input type="checkbox"/> Change of Plans
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion	<input type="checkbox"/> New Construction
<input checked="" type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Altering Casing	<input type="checkbox"/> Conversion to Injection
	<input type="checkbox"/> Other _____	<input type="checkbox"/> Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drill: give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Please be advised that the above referenced well has been plugged in accordance with the approved plan and is ready for final inspection.



14. I hereby certify that the foregoing is true and correct

Signed [Signature] Title Engineer Date 10/25/99

(This space for Federal or State office use)

Approved by _____ Title _____ Date _____
Conditions of approval, if any:

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statement or representations as to any matter within its jurisdiction.

*See Instruction on Reverse Side

KIRKWOOD OIL & GAS

Fax Cover This is a confidential message, intended solely for the person to whom it is addressed. If you receive this message in error, please forward it to the correct person, or mail it back to us. Thank you.

To Carol Daniels
Fax No. 801-359-3940
From Robert Kirkwood
Date/Time 11/4/1999 at 9:22AM
Subject Utah well P & A dates
Pages 1, including this one

Carol:

The P&A dates you requested are as follows:

Monroe 22-20 10/7/99

Magnum 23-8 10/8/99

Cromwell 33-29 10/9/99 (TA Stat)

White Rim 44-31 10/5/99

Technology 14-36 10/8/99

Garfield 44-15 8/19/92

Remington 14-15 8/19/92

Winfield 21-15 8/18/92

If you need more information please let me know.

307 265-5178

Fax 307 265-1791